



Tails & Tales

SUMMER 2021

MobileQuest Program Guide



Tails & Tales **SUMMER 2021**

MOBILEQUEST STEM CENTER

2021 Booking Information

Available dates:

Digital and At-Home - June 14, 2021 through August 27, 2021

Live Class Options - Booking for June 28, 2021- August 27, 2021
(classes to be held if allowed under state guidelines - should only be booked if Library has the space to accommodate appropriate social distancing guidelines).

You will need the following information to book:

- Library Name and Address
- Program Choice
- 1st and 2nd choice dates and times

CLICK HERE

to book a program!

**If booking an outdoor option please list a preferred rain date*

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AT-HOME ESCAPE ROOMS

Option 1 -Merlin's Rescue

The Wizard of Fairytale Kingdom has been captured and it's your job to help him escape!

Difficulty - Easy

Average time to complete - 60 minutes

Designed for young children and families

Option 2 -Molecule Mishap

Agent Z's mission has been compromised now you must complete his top-secret mission!

Difficulty - Medium

Average time to complete - 90 minutes

Designed for Teens and Families

This At-Home Escape Room is ideal for family fun and can be done in the comfort of their own living room This Escape Room is designed to be completed in an average of 60 - 90 minutes. A family would take the box home for one night and return the next morning.

Library staff would be responsible for sanitizing the box and resetting it for the next family! Clues vary in levels so everyone can be part of the action.

- Rental - 3 Weeks - \$200.00
 - Includes - Completed box, reset instructions, and technical support when needed during the 3 weeks of rental
- Box to Keep - \$350.00
 - Includes - Completed box with reset directions and technical support for the entire summer

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IN PERSON PROGRAMS

BattleTales

Time to take those coding skills to the MobileQuest arena, in this program participants will modify our Dash robots into ferocious animals with balloons, skewers, plastic straws, and more as they prepare for battle! Participants work individually controlling their "creature" until the last balloon is popped!

Students will get their own individual tablets and robots along with a separate bag of supplies.

Cost: \$200 - 1 hour - Up to 14 participants - Teens

Robot Zoo Obstacle Course

In this program, participants will learn how to control a Dash robot and maneuver it through our zoo obstacle course

Cost: \$200 - 1 hour - Up to 14 participants - Youth

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IN PERSON PROGRAMS

Intro to Coding with Dash Robots

In our Intro to Coding class students learn to program Dash to do anything they can imagine - from delivering a message & creating a dance party to navigating an obstacle course & racing through a maze! Students will get their own individual tablets and robots.

Cost: \$200 - 1 hour - Up to 14 participants - Youth and Teens



Summer Memories

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DIGITAL PROGRAMS

Digital STEM Lessons

We will provide 8 PDF lesson plans and digital video instructions for each challenge. All the lessons use common household goods to complete - kids can watch the video, pause and play as needed and use the accompanying PDF lessons to make observations, participate in the extension activities and share with their families.

This would make for a great 8 week series - participants can be sent the digital lesson once a week and it will last for most of the summer!

Cost: \$200 - Unlimited participants

TIN FOIL BOAT

Materials

- Sheet of tin foil (12" x 12")
- 25 pennies

*Students will need to use a sink or large Tupperware of water to test their boats.

Activity Instructions

Today you will design a boat using a piece of foil. Once your boat is constructed, you will test it in a sink or large Tupperware of water to see if it floats. If it

Activity Sheet

Scientists record all their observations - everything they see happening during an experiment. Record your observations here:

Warm Water	Epsom Salt	Baking Soda
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Activity Sheet

Step 1: Make predictions

1. What do you think would work better, a shorter straw or longer straw? Why?
2. Do you think the small hoop should be the front of your glider or the back?

Step 2: Construction time

- Take a note card and cut it into thirds lengthwise

Examples



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HYBRID PROGRAMS

Zoom & STEM Kits

Option 1 - Rescue Rapunzel

Rapunzel spent her time in quarantine watching tik-tok videos and found a DIY on how to cut her hair. Now there is no way for people to visit her tower and she needs your help!

Option 2- STEM SPY

Agent Memphis has been captured by evil operatives and needs you to use your STEM skills and help him escape. (Part the of the MobileQuest STEM SPY PROGRAM)

In this Zoom workshop, participants will be given different situations and materials to create a solution. This workshop will help develop critical thinking and problem solving skills.

Kits dropped off week before mission launch. Mission announced during start of ZOOM meeting. Participants must use materials in the box, brainstorm and see what solution is best for the scenario.

Cost: \$200 - 1 hour - Up to 20 participants

20 kits delivered to the library for distribution, Zoom chat, and discussion with MobileQuest Team Member included in price

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OUTDOOR PROGRAMS

High Flyers

As we take our STEM adventure outside as we take to the sky in this high flying adventure. Participants will complete 2 High flying activities including creating a flying gas-powered animal!

Cost: \$200 - 1 hour - Up to 18 participants - Youth and Teens

STEM Scavenger Hunt

Are you ready for some STEM overload! The STEM Scavenger hunt will take participants to 6 different STEM stations. Each station will have a challenge related to the summer theme of Tales and Tails. This activity is ideal for families to complete together!

Cost: \$250 - 2 hours - Up to 60 participants - (30 per hour)

